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PN - JP59006367 A 19840113
TI - PREPARATION OF LINK CHAIN
EC - C23C8/20 ; C23C8/30 ; C23C26/00
FI - C23C8/22 ; C23C8/32 ; C25D5/10 ; C23C12/02 ; C23C28/00&B ; F16G13/12&C
PA - NITSUCHI KK
IN - OOGURO AKIHIRO
AP - JP19820114399 19820630
PR - JP19820114399 19820630
DT - *

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AN - 1984-045734 [08]
TI - Corrosion resistant linked chain prodn. - involves plating chain material then carburising, hardening, tempering etc. for improved wear resistance
AB - J59006367 The process comprises applying a desired plating over the surface of mother material of link chain to form corrosion resistant layer, and performing carburising or carbonitriding and hardening and tempering to form hardened layer over the corrosion resistant layer.
- The corrosion resistant layer closely adheres to the surface of the mother material of link chain, and the hardened layer improves the rupture strength and wear resistance. In an example, link chain (wire size:7.1 mm; chemical component : C 0.19%; Si 0.20%; Mn 0.79%; P 0.010%; S 0.008%; Cr 1.12%; Mo 0.24%; Fe the remainder) was Ni plated (layer thickness 10 microns), and the link chain so plated was heated in a carburising atmos., hardened, and tempered. The breaking load of the link chain so obtd. was 7.6 ton and the elongation was 16.2%.(0/2)
IW - CORROSION RESISTANCE LINK CHAIN PRODUCE PLATE CHAIN MATERIAL CARBURISE HARDEN TEMPER IMPROVE WEAR RESISTANCE
PN - JP59006367 A 19840113 DW198408 004pp
- JP61031183B B 19860718 DW198633 000pp
IC - C23C8/20 ; C23C9/10 ; C23C11/14 ; C23C28/00 ; C25D5/10 ; F16G13/00
MC - M13-D M14-K
DC - M13 Q64
PA - (NICC-N) NICCHI KK
AP - JP19820114399 19820630
PR - JP19820114399 19820630

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For your information

PN - JP59006367 A 19840113 D3
TI - PREPARATION OF LINK CHAIN
AB - PURPOSE: To obtain a link chain excellent in corrosion resistance and anti-wear property at low cost, by a method wherein a corrosion resistant metal layer is formed on the surface of the matrix material of the link chain and carbonitriding treatment is carried out to form a surface hardened layer.
- CONSTITUTION: A corrosion resistant layer 2 comprising a Ni alloy or the like is formed on the surface layer part of a link chain matrix material 1 used in a winder or a hanger. In the next step, carburization or carbonitriding treatment is carried out and, thereafter, tempering and annealing are carried out to form a diffusion penetration layer 3 into which the parts of a surface hardened layer 4 and the corrosion resistant metal layer 2 are diffused and penetrated on the surface layer part of the matrix material 1 having an annealed martensite structure. By this method, the number of manufacturing processes are reduced and a link chain easy in the thickness control of the surface hardened layer 4 and excellent in corrosion resistance and anti-wear property is obtained.
I - C23C9/10 ; C23C11/14
PA - NITSUCHI:KK
IN - OOGURO AKIHIRO
ABD - 19840418
ABV - 008085

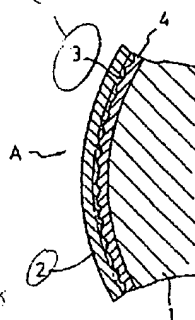
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GR - C219
AP - JP19820114399 19820630

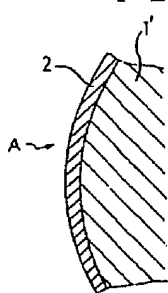
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Figure 1 is a cross-sectional diagram of a metal alloy. It shows a curved surface of the alloy, labeled 'Al-alloy'. A layer on the surface is labeled 'Corrosion resistant layer' and is numbered '1'. Below this layer, a region is labeled 'Corrosion product layer' and is numbered '2'. The diagram is labeled '第 1 圖' (Figure 1) in the top right corner.



第 2 圖



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